

IN THE CLAIMS

The current claims for this application are listed below.

- 1-12. (canceled)
13. (Previously presented) A method to access remote documents, the method comprising:
 - sending a request for a document from a device to a remote server;
 - receiving at the device an image in a compressed format from the remote server, the image being rendered at the remote server from the entire document in response to the request;
 - automatically displaying a first portion of the image on a display of the device;
 - under control of the device, selectively displaying a second portion of the image on the display of the device according a first user input to the device;
 - receiving a second user input directed to a location on the display of the device; and
 - transmitting data specifying the second user input as directed to a location on the image from the device to the remote server for applying the second user input to the document at the remote server.
14. (Previously presented) The method of claim 13, wherein the document comprises displayable information in a non-image format; and, a portion of the image is rendered from the displayable information.
15. (Previously presented) The method of claim 14, wherein displayable information comprises one of:

Java; and

text in a non-image format.

16. (Previously presented) The method of claim 14, wherein said selectively displaying comprises:
scrolling the image on the display of the device at exclusive control of the device.
17. (Previously presented) The method of claim 14, wherein the location on the image is specified using:
a location on the display of the device; and
a position of the image on the display of the remote device.
18. (Previously presented) The method of claim 17, wherein the position of the image on the display comprises:
data specifying scrolling activities performed at exclusive control of the device.
19. (Previously presented) The method of claim 14, wherein the second user input comprises a selection on the location on the display of the device.
20. (Previously presented) The method of claim 13, wherein the second user input comprises text input directed to the location on the display of the device.
21. (Previously presented) The method of claim 13, wherein the image of the document is refreshed only in response to a user input to the device.

22. (Previously presented) The method of claim 13, further comprising:
receiving at the device an image of one or more user interface elements in a
compressed form;
displaying the image of the one or more user interface elements on a portion of the
display of the device; and
receiving at the device a third user input directed to a location in the portion the
display of the device;
wherein the request for the document is sent from the device in response to the third
user input.
23. (Previously presented) The method of claim 22, wherein the request for the document
comprises data specifying the third user input directed to a location on the image of
the one or more user interface elements.
24. (Previously presented) The method of claim 22, wherein the image of the one or more
user interface elements depicts a portion of a user interface of a web browser.
25. (Previously presented) The method of claim 24, wherein the portion of the user
interface of the web browser comprises at least one of:
title;
scroll bar;
menu item;
back button; and
forward button.

26. (Previously presented) The method of claim 24, wherein the image of the one or more user interface elements is received from the remote server only during initialization of the device for accessing remote documents.
27. (Previously presented) A method to serve documents, the method comprising:
receiving at a server from a remote device a request for a document;
rendering at the server the entire document into an image in response to the request;
transmitting the image in a compressed format from the server to the remote device
for display;
receiving at the server from the remote device data specifying a user input directed to
a location on the image; and
applying the user input to the document at the server according to the location on the
image.
28. (Previously presented) The method of claim 27, wherein the document comprises
displayable information in a non-image format; and, a portion of the image is
rendered from the displayable information.
29. (Previously presented) The method of claim 28, wherein the displayable information
comprises one of:
Java; and
text in a non-image format.

30. (Previously presented) The method of claim 28, wherein the location on the image is specified using:
a location on a display of the remote device; and
a position of the image on the display of the remote device.
31. (Previously presented) The method of claim 30, wherein the position of the image on the display of the remote device is specified using:
data specifying scrolling activities performed at exclusive control of the remote device.
32. (Previously presented) The method of claim 28, wherein the user input comprises a selection on a location on the display of the remote device.
33. (Previously presented) The method of claim 27, wherein the user input comprises text input to a location on the display of the remote device.
34. (Previously presented) The method of claim 27, wherein the server generates a refreshed version of the image of the document only in response to a user input to the remote device.
35. (Previously presented) The method of claim 27, further comprising:
sending from the server to the remote device an image of one or more user interface elements in a compressed form;

wherein the request for the document comprises data specifying a user input directed to a location on the image of one or more user interface elements.

36. (Previously presented) The method of claim 35, wherein the image of the one or more user interface elements depicts a portion of a user interface of a web browser.
37. (Previously presented) The method of claim 36, wherein the image of the one or more user interface elements is sent from the server to the remote device only during initialization of remote device for accessing documents.
38. (Previously presented) A device to access remote documents, the device comprising:
 - means for sending a request for a document to a remote server;
 - means for receiving an image in a compressed format from the remote server, the image being rendered at the remote server from the entire document in response to the request;
 - means for automatically displaying a first portion of the image on a display of the device;
 - means for selectively displaying, under control of the device, a second portion of the image on the display of the device according a first user input to the device;
 - means for receiving a second user input directed to a location on the display of the device; and
 - means for transmitting data specifying the second user input as directed to a location on the image to the remote server for applying the second user input to the document at the remote server.

39. (Previously presented) The device of claim 38, wherein the document comprises displayable information in a non-image format; and, a portion of the image is rendered from the displayable information.
40. (Previously presented) The device of claim 39, wherein displayable information comprises one of:
Java; and
text in a non-image format.
41. (Previously presented) The device of claim 39, wherein said means for selectively displaying comprises:
means for scrolling the image on the display of the device at exclusive control of the device.
42. (Previously presented) The device of claim 39, wherein the location on the image is specified using:
a location on the display of the device; and
a position of the image on the display of the remote device.
43. (Previously presented) The device of claim 42, wherein the position of the image on the display comprises:
data specifying scrolling activities performed at exclusive control of the device.

44. (Previously presented) The device of claim 39, wherein the second user input comprises a selection on the location on the display of the device.
45. (Previously presented) The device of claim 38, wherein the second user input comprises text input directed to the location on the display of the device.
46. (Previously presented) The device of claim 38, wherein the image of the document is refreshed only in response to a user input to the device.
47. (Previously presented) The device of claim 38, further comprising:
means for receiving an image of one or more user interface elements in a compressed form;
means for displaying the image of the one or more user interface elements on a portion of the display of the device; and
means for receiving at the device a third user input directed to a location in the portion the display of the device;
wherein the request for the document is sent from the device in response to the third user input.
48. (Previously presented) The device of claim 47, wherein the request for the document comprises data specifying the third user input directed to a location on the image of the one or more user interface elements.

49. (Previously presented) The device of claim 47, wherein the image of the one or more user interface elements depicts a portion of a user interface of a web browser.
50. (Previously presented) The device of claim 49, wherein the portion of the user interface of the web browser comprises at least one of:
title;
scroll bar;
menu item;
back button; and
forward button.
51. (Previously presented) The device of claim 49, wherein the image of the one or more user interface elements is received from the remote server only during initialization of the device for accessing remote documents.
52. (Previously presented) A server to serve documents, the server comprising:
means for receiving from a remote device a request for a document;
means for rendering the entire document into an image in response to the request;
means for transmitting the image in a compressed format to the remote device for display;
means for receiving from the remote device data specifying a user input directed to a location on the image; and
means for applying the user input to the document at the server according to the location on the image.

53. (Previously presented) The server of claim 52, wherein the document comprises displayable information in a non-image format; and, a portion of the image is rendered from the displayable information.
54. (Previously presented) The server of claim 53, wherein the displayable information comprises one of:
Java; and
text in a non-image format.
55. (Previously presented) The server of claim 53, wherein the location on the image is specified using:
a location on a display of the remote device; and
a position of the image on the display of the remote device.
56. (Previously presented) The server of claim 55, wherein the position of the image on the display of the remote device is specified using:
data specifying scrolling activities performed at exclusive control of the remote device.
57. (Previously presented) The server of claim 53, wherein the user input comprises a selection on a location on the display of the remote device.
58. (Previously presented) The server of claim 52, wherein the user input comprises text input to a location on the display of the remote device.

59. (Previously presented) The server of claim 52, wherein the server generates a refreshed version of the image of the document only in response to a user input to the remote device.
60. (Previously presented) The server of claim 52, further comprising:
means for sending to the remote device an image of one or more user interface elements in a compressed form;
wherein the request for the document comprises data specifying a user input directed to a location on the image of one or more user interface elements.
61. (Previously presented) The server of claim 60, wherein the image of the one or more user interface elements depicts a portion of a user interface of a web browser.
62. (Previously presented) The server of claim 61, wherein the image of the one or more user interface elements is sent from the server to the remote device only during initialization of remote device for accessing documents.
63. (Previously presented) A machine readable medium containing executable computer program instructions which when executed by a data processing system cause said system to perform a method to access remote documents, the method comprising:
sending a request for a document from a device to a remote server;
receiving at the device an image in a compressed format from the remote server, the image being rendered at the remote server from the entire document in response to the request;

automatically displaying a first portion of the image on a display of the device;
under control of the device, selectively displaying a second portion of the image on
the display of the device according a first user input to the device;
receiving a second user input directed to a location on the display of the device; and
transmitting data specifying the second user input as directed to a location on the
image from the device to the remote server for applying the second user input
to the document at the remote server.

64. (Previously presented) The medium of claim 63, wherein the document comprises displayable information in a non-image format; and, a portion of the image is rendered from the displayable information.
65. (Previously presented) The medium of claim 64, wherein displayable information comprises one of:
Java; and
text in a non-image format.
66. (Previously presented) The medium of claim 64, wherein said selectively displaying comprises:
scrolling the image on the display of the device at exclusive control of the device.
67. (Previously presented) The medium of claim 64, wherein the location on the image is specified using:
a location on the display of the device; and
a position of the image on the display of the remote device.

68. (Previously presented) The medium of claim 67, wherein the position of the image on the display comprises:
data specifying scrolling activities performed at exclusive control of the device.
69. (Previously presented) The medium of claim 64, wherein the second user input comprises a selection on the location on the display of the device.
70. (Previously presented) The medium of claim 63, wherein the second user input comprises text input directed to the location on the display of the device.
71. (Previously presented) The medium of claim 63, wherein the image of the document is refreshed only in response to a user input to the device.
72. (Previously presented) The medium of claim 63, wherein the method further comprises:
receiving at the device an image of one or more user interface elements in a
compressed form;
displaying the image of the one or more user interface elements on a portion of the
display of the device; and
receiving at the device a third user input directed to a location in the portion the
display of the device;
wherein the request for the document is sent from the device in response to the third
user input.

73. (Previously presented) The medium of claim 72, wherein the request for the document comprises data specifying the third user input directed to a location on the image of the one or more user interface elements.
74. (Previously presented) The medium of claim 72, wherein the image of the one or more user interface elements depicts a portion of a user interface of a web browser.
75. (Previously presented) The medium of claim 74, wherein the portion of the user interface of the web browser comprises at least one of:
title;
scroll bar;
menu item;
back button; and
forward button.
76. (Previously presented) The medium of claim 74, wherein the image of the one or more user interface elements is received from the remote server only during initialization of the device for accessing remote documents.
77. (Previously presented) A machine readable medium containing executable computer program instructions which when executed by a data processing system cause said system to perform a method to serve documents, the method comprising:
receiving at a server from a remote device a request for a document;
rendering at the server the entire document into an image in response to the request;

transmitting the image in a compressed format from the server to the remote device
for display;
receiving at the server from the remote device data specifying a user input directed to
a location on the image; and
applying the user input to the document at the server according to the location on the
image.

78. (Previously presented) The medium of claim 77, wherein the document comprises displayable information in a non-image format; and, a portion of the image is rendered from the displayable information.
79. (Previously presented) The medium of claim 78, wherein the displayable information comprises one of:
Java; and
text in a non-image format.
80. (Previously presented) The medium of claim 78, wherein the location on the image is specified using:
a location on a display of the remote device; and
a position of the image on the display of the remote device.
81. (Previously presented) The medium of claim 80, wherein the position of the image on the display of the remote device is specified using:
data specifying scrolling activities performed at exclusive control of the remote device.

82. (Previously presented) The medium of claim 78, wherein the user input comprises a selection on a location on the display of the remote device.
83. (Previously presented) The medium of claim 77, wherein the user input comprises text input to a location on the display of the remote device.
84. (Previously presented) The medium of claim 77, wherein the server generates a refreshed version of the image of the document only in response to a user input to the remote device.
85. (Previously presented) The medium of claim 77, wherein the method further comprises:
sending from the server to the remote device an image of one or more user interface elements in a compressed form;
wherein the request for the document comprises data specifying a user input directed to a location on the image of one or more user interface elements.
86. (Previously presented) The medium of claim 85, wherein the image of the one or more user interface elements depicts a portion of a user interface of a web browser.
87. (Previously presented) The medium of claim 86, wherein the image of the one or more user interface elements is sent from the server to the remote device only during initialization of remote device for accessing documents.

88. (Previously presented) A method to access remote documents, the method comprising:
sending from a device to a remote server a request for a document;
receiving at the device an image in a compressed format from the remote server, the image being rendered at the remote server from the entire document in response to the request;
displaying at least a portion of the image on a display attached to the device;
wherein a portion of the document changes with respect to time if rendered in a browser; and
wherein a refreshed image of the document is received from the remote server at the device for display only in response to a user input to the device.
89. (Previously presented) The method of claim 88, wherein the user input comprises a mouse down event.
90. (Previously presented) The method of claim 89, wherein the mouse down event is at a location of the image which location corresponds to one of:
a link; and
a text box.
91. (Previously presented) The method of claim 88, wherein the portion of the document comprises a banner.
92. (Previously presented) The method of claim 88, further comprising:

under exclusive control of the device, selectively displaying a portion of the image on the display of the device according a user input to the device.

93. (Previously presented) A method to access remote documents, the method comprising:
sending from a device to a remote server a request for a document;
receiving at the device an image in a compressed format from the remote server, the image being rendered at the remote server from the entire document in response to the request;
under exclusive control of the device, selectively displaying a portion of the image on a display attached to the device according a user input to the device; and
receiving a selection at the device;
sending a message from the device to the remote server to determine if the selection is on a link in the document.
94. (Previously presented) The method of claim 93, wherein text representing a link in the document is rendered slightly bolder in the image.
95. (Previously presented) The method of claim 93, further comprising:
displaying a feedback at the device to indicate that the message is sent to the remote server.
96. (Previously presented) The method of claim 95, wherein said displaying the feedback comprises changing a cursor into an hourglass.

97. (Previously presented) A device to access remote documents, the device comprising:
means for sending to a remote server a request for a document;
means for receiving an image in a compressed format from the remote server, the
image being rendered at the remote server from the entire document in
response to the request;
means for displaying at least a portion of the image on a display attached to the
device;
wherein a portion of the document changes with respect to time if rendered in a
browser; and
wherein a refreshed image of the document is received from the remote server at the
device for display only in response to a user input to the device.
98. (Previously presented) The device of claim 97, wherein the user input comprises a
mouse down event.
99. (Previously presented) The device of claim 98, wherein the mouse down event is at a
location of the image which location corresponds to one of:
a link; and
a text box.
100. (Previously presented) The device of claim 97, wherein the portion of the document
comprises a banner.
101. (Previously presented) The device of claim 97, further comprising:

means for selectively displaying, under exclusive control of the device, a portion of the image on the display of the device according a user input to the device.

102. (Previously presented) A device to access remote documents, the device comprising:

means for sending to a remote server a request for a document;

means for receiving an image in a compressed format from the remote server, the image being rendered at the remote server from the entire document in response to the request;

means for selectively displaying, under exclusive control of the device, a portion of the image on a display attached to the device according a user input to the device; and

means for receiving a selection;

means for sending a message from the device to the remote server to determine if the selection is on a link in the document.

103. (Previously presented) The device of claim 102, wherein text representing a link in the document is rendered slightly bolder in the image.

104. (Previously presented) The device of claim 102, further comprising:

means for displaying a feedback to indicate that the message is sent to the remote server.

105. (Previously presented) The device of claim 104, wherein said means for displaying the feedback comprises means for changing a cursor into an hourglass.

106. (Previously presented) A machine readable medium containing executable computer program instructions which when executed by a data processing system cause said system to perform a method to access remote documents, the method comprising:
sending from a device to a remote server a request for a document;
receiving at the device an image in a compressed format from the remote server, the image being rendered at the remote server from the entire document in response to the request;
displaying at least a portion of the image on a display attached to the device;
wherein a portion of the document changes with respect to time if rendered in a browser; and
wherein a refreshed image of the document is received from the remote server at the device for display only in response to a user input to the device.
107. (Previously presented) The medium of claim 106, wherein the user input comprises a mouse down event.
108. (Previously presented) The medium of claim 107, wherein the mouse down event is at a location of the image which location corresponds to one of:
a link; and
a text box.
109. (Previously presented) The medium of claim 106, wherein the portion of the document comprises a banner.

110. (Previously presented) The medium of claim 106, wherein the method further comprises:
under exclusive control of the device, selectively displaying a portion of the image on the display of the device according a user input to the device.
111. (Previously presented) A machine readable medium containing executable computer program instructions which when executed by a data processing system cause said system to perform a method to access remote documents, the method comprising:
sending from a device to a remote server a request for a document;
receiving at the device an image in a compressed format from the remote server, the image being rendered at the remote server from the entire document in response to the request;
under exclusive control of the device, selectively displaying a portion of the image on a display attached to the device according a user input to the device; and
receiving a selection at the device;
sending a message from the device to the remote server to determine if the selection is on a link in the document.
112. (Previously presented) The medium of claim 111, wherein text representing a link in the document is rendered slightly bolder in the image.
113. (Previously presented) The medium of claim 111, wherein the method further comprises:

displaying a feedback at the device to indicate that the message is sent to the remote server.

- 114. (Previously presented) The medium of claim 113, wherein said displaying the feedback comprises changing a cursor into an hourglass.
- 115. (New) The method of claim 13, wherein at least a portion of the document has a greater color depth than the image.
- 116. (New) The method of claim 13, wherein the compressed format is attained through lossy compression.
- 117. (New) The method of claim 13, wherein the first portion of the image and the second portion of the image are formed from a matrix array of blocks of information sent by the remote server.
- 118. (New) The method of claim 117, wherein the blocks of information have identifiers which define a prioritized sequence of assembling based on location.
- 119. (New) The method of claim 15, wherein the text is enlarged when rendered into the first portion of the image.
- 120. (New) The method of claim 24, wherein the image of one or more user interface elements is hard coded in the device.

121. (New) The method of claim 27, wherein rendering comprises reducing color depth.
122. (New) The method of claim 29, wherein the text is enlarged when rendered into the portion of the image.
123. (New) The device of claim 38, wherein at least a portion of the document has a greater color depth than the image.
124. (New) The device of claim 38, wherein at least a portion of the document is in color and the image is in gray scale.
125. (New) The device of claim 38, wherein the first portion of the image and the second portion of the image are constructed from a matrix array of blocks of information sent by the remote server.
126. (New) The device of claim 125 wherein the blocks of information have identifiers which define a prioritized sequence of assembling based on location.
127. (New) The device of claim 40, wherein the text is enlarged when rendered into the portion of the image.
128. (New) The device of claim 49, wherein the image of one or more user interface elements is hard coded in the device.